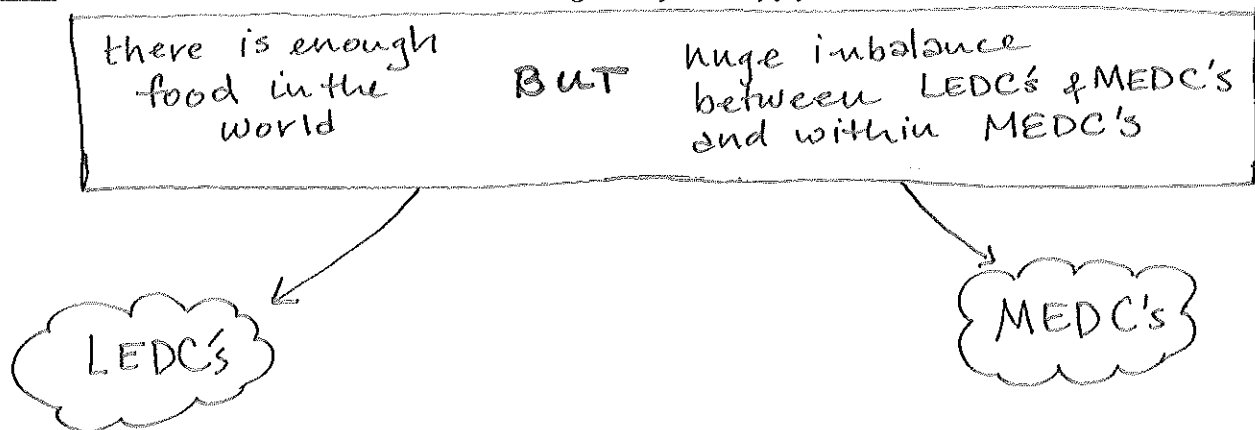


## Food & Agriculture

### 3.5.1 Outline the issues involved in the imbalance in global food supply



#### \* under-nourishment

food intake doesn't contain enough Energy

#### \* malnourishment

food intake lacks essential nutrients → proteins & minerals

\* Food is way to make foreign currency (ex. tobacco, sugar)

Export their food

↓  
don't always have enough for their own populations

\* Because more MEDC's want biofuels → more LEDC's are using land for biofuels instead of food production.

↓  
Since there is less land for food - food prices ↑↑

#### \* Overnourishment

food contains too many calories each day.

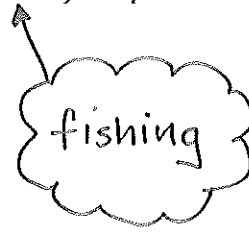
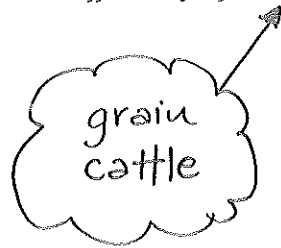
\* in some situations people in poverty also undernourished & malnourished

\* ↑\$ people consume more (esp. meat)

\* Food prices are Regulated  
(via CAP subsidies & import tariffs)  
Export subsidies

\* Using more & more biofuels  
(also replacing some Crops - but more food being produced to begin with)

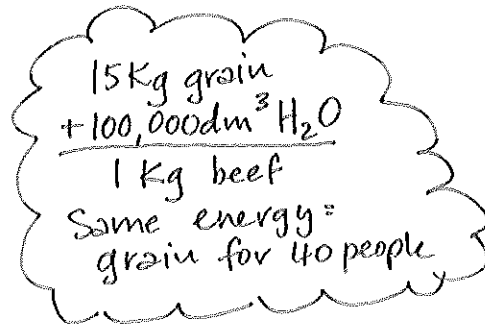
3.5.2 Compare and contrast the efficiency of terrestrial and aquatic food production systems



TERRESTRIAL  
SYSTEMS

- ★ Food harvested @ low trophic levels (producers & herbivores)

More efficient bc. has most Energy (think 10% Rule)



- ★ initial fixing of energy more efficient (plants, grasses etc.)

- ★ herbivores (beef, pork, poultry) provide protein

- ★ Can be made into diverse products (milk, meat, blood, wool, hide)

- ★ Cattle etc. used for work

AQUATIC  
SYSTEMS

- ★ Food harvested @ higher trophic levels

↑  
little stored energy (think 10% Rule)

- ★ initial fixing of energy less efficient (phytoplankton)

- ★ fish & shellfish provide protein

- ★ Can be made into a few products (fish oil, meat, ?)

- ★ Very few dolphins & whales carting stuff around

- to export to MEDC's must pay import taxes
- Have few benefits from their own government

LEDC

FARMER

MEDC

- domestic support & export subsidies make it cheap to export products = cheap product

LEDC's

\* Climate Change → more drought → Reducing productivity  
Also may cause crops to be killed.

\* ↓ of Tech, ↓ \$ (Capital),  
 ↑ level labor, ↑ animals instead of machines

\* Polyculture → mixed cropping @ a small scale.

MEDC's

\* Also impacted by climate change → some issues BUT Most not near deserts or tropics.

\* ↑ of Tech, ↓ labour, & ↑ fuel costs, ↑ fertilizers, ↑ pesticides (made in factory)

\* Production @ very high yield & production

\* Use lots of GM crops (genetically modified—Corn, tomatoes, golden rice)

\* Monoculture → grow only one type of crop (Irish Potatoes)